TRANSFER OF NORTH AMERICAN HELIANTHEMUM TO CROCANTHEMUM (CISTACEAE): NEW COMBINATIONS

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ABSTRACT

Transfer of *Helianthemum* (Tourn.) P. Mill. to *Crocanthemum* Spach in the Flora of North America project requires three new combinations: *Crocanthemum greenei* (B.L. Robins.) Sorrie, comb. nov.; *C. scoparium* (Nutt. ex Torrey & A. Gray) Millsp. var. *vulgare* (Jepson) Sorrie, comb. nov.; and *C. suffrutescens* (B. Schreib.) Sorrie, comb. nov. *Phytologia 93(2):270-271 (August 1, 2011)*

KEY WORDS: *Helianthemum, Crocanthemum,* Cistaceae, Flora of North America.

Recent molecular and morphological analyses of the Cistaceae (Arrington 2004) indicate that *Helianthemum* (Tourn.) P. Mill. as currently circumscribed is polyphyletic. All New World taxa are better placed within *Crocanthemum* Spach. In the forthcoming Volume 6 of Flora of North America (in prep.), I will recognize 15 species of *Crocanthemum* plus one variety. These actions require three new combinations.

1. Crocanthemum greenei (B.L. Robins.) Sorrie, comb. nov. Basionym: Helianthemum greenei B.L. Robins. Syn. Fl. N. Amer. 1(1): 191. 1895. – TYPE: U.S.A.: California, Santa Barbara County, Island of Santa Cruz, July & August 1886, Greene s.n. (holotype: ND; isotype: NY!). Note that Crocanthemum occidentale (Greene) Janchen (Nat. Pflanzenfam. ed 2. 21: 305), published in 1925, is based on Helianthemum occidentale Greene (Bull. Calif. Acad. Sci. 2: 144), published in 1886. However, Greene's epithet is a later homonym,

having been preceded by *H. occidentale* Nyman (Consp. Fl. Eur. 72), published in 1878 for a European species.

- 2. *Crocanthemum scoparium* (Nutt. ex Torrey & A. Gray) Millsp. var. *vulgare* (Jepson) Sorrie, **comb. nov.** Basionym: *Helianthemum scoparium* Nutt. ex Torrey & A. Gray var. *vulgare* Jepson. Man. Fl. Plants of Calif. 641. 1925. TYPE: U.S.A.: California, Mariposa County, Coulterville, 3 July 1896, Jepson 13953 (lectotype JEPS!).
- 3. Crocanthemum suffrutescens (B. Schreib.) Sorrie, comb. nov. Basionym: Helianthemum suffrutescens B. Schreib. Madrono 5: 81. 1939. TYPE: U.S.A.: California, Amador County, 5.5 miles southwest of Bisbee Peak, 23 May 1936, Schreiber 2243 (holotype JEPS!; isotype GH).

LITERATURE CITED

Arrington, J.M. 2004. Systematics of the Cistaceae. Ph.D. thesis, Duke University, Durham, North Carolina.

Flora of North America Editorial Committee. in prep. Flora of North America North of Mexico. Vol. 6, Magnoliophyta: Cucurbitaceae to Droseraceae. Oxford University Press, New York.